

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D350-636 REV. F OR EARLIER

REF. FAA STC: SR00646SE

REF. TCCA STC: SH99-7

REF. CAA AIRWORTHINESS APPROVAL NOTE: 28081, 28082

The D350-636-107 Cable Guard kit may be installed on D350-636-011/-013 Skidtube installations during hoisting operations to prevent damage to the cable and skidtube. The D350-636-107 Cable Guard Kit consists of the D350-636-107A Forward Cable Guard and the D350-636-107B Aft Cable Guard Kits. The D350-636-107A/-107B kits may be installed separately or in combination. See Figure 1 Sheet 2 for details.

The D350-636-107A Fwd Cable Guard Kit may be installed as follows:

- 1) Remove the forward 2x 350A41-1027-20 bolts (with OEM crosstubes installed) or 2x AN4-41A bolts and D3501-1 bushings (with Dart crosstubes installed) holding the forward LH saddle in place.
- 2) Insert the bolts or bolts and bushings through the holes provided in the D3928-1 bracket and reinstall per Aircraft Maintenance Manual or relevant STC.
- 3) Remove the aft 2x 350A41-1027-20 bolts (with OEM crosstubes installed) or 2x AN4-41A bolts and D3501-1 bushings (with Dart crosstubes installed) holding the forward LH saddle in place.
- 4) Insert the bolts or bolts and bushings through the holes provided in the D3928-1 bracket and reinstall per Aircraft Maintenance Manual or relevant STC.
- 5) Position the D3927-1 forward cable guard between the tangs of the D3928-1 bracket centered over the crosstube saddle and against the skidtube. Transfer drill 2x  $\varnothing 0.257$  holes from the D3928-1 bracket to the D3927-1 forward cable guard. Remove D3927-1 forward cable guard and deburr holes.
- 6) Install the D3927-1 forward cable guard into the brackets using the hardware as shown in Figure 2 Sheet 3.

The D350-636-107B Aft cable guard kit may be installed as follows:

- 1) Slide the D3927-3 aft cable guard over the outboard ground handling lugs on the LH skidtube.
- 2) Insert the BLBS-020 pip pin into the hole at the aft end of the D3927-3 cable guard to secure it in place. See Figure 3 Sheet 4 for details.

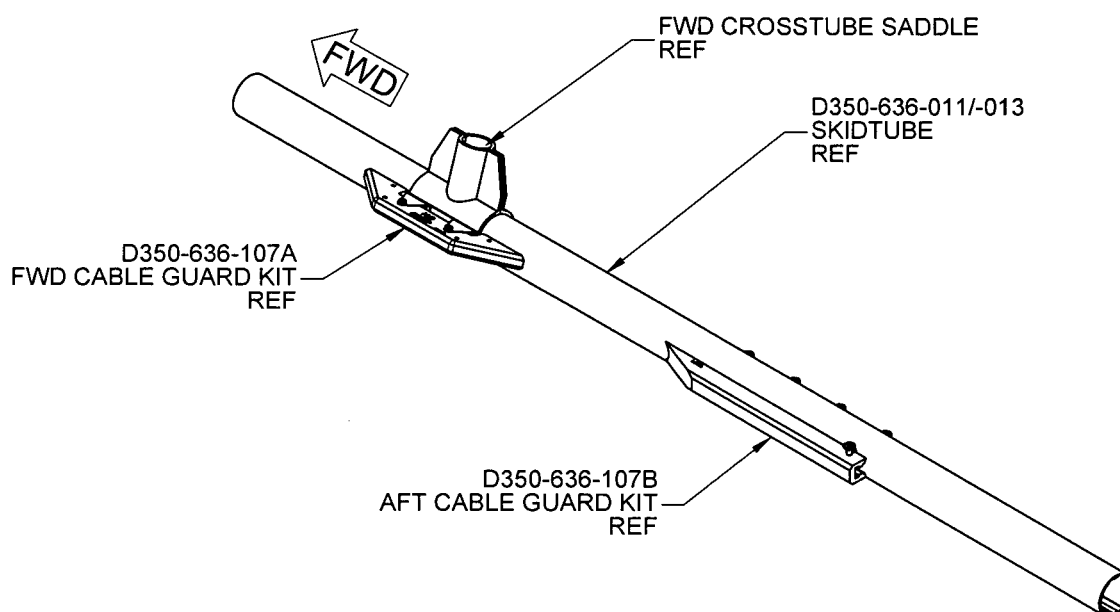
## WEIGHT AND BALANCE

Installation	Weight	Lateral		Longitudinal	
		Arm	Moment	Arm	Moment
D350-636-107 Cable Guard Kit	1.80 lb 0.82 kg	42.79 in 1.09 m	77.02 in-lb 0.89 m-kG	112.97 in 2.87 m	203.35 in-lb 2.35 m-kG
D350-636-107A Fwd Cable Guard	0.95 lb 0.43 kg	42.89 in 1.09 m	40.75 in-lb 0.47 m-kG	106.29 in 2.70 m	100.98 in-lb 1.16 m-kG
D350-636-107B Aft Cable Guard	0.85 lb 0.39 kg	42.19 in 1.07 m	35.86 in-lb 0.42 m-kG	137.48 in 3.49 m	116.86 in-lb 1.36 m-kG

A	NEW ISSUE		09.04.01
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE USA, INC. PORT HADLOCK, WA	
DRAWN			
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9457	SHEET 1 OF 4
APPROVED		TITLE	SCALE
DE APPR.		CABLE GUARD KITS	NTS
DATE	09.04.01	<small>COPYRIGHT © 2009 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.</small>	

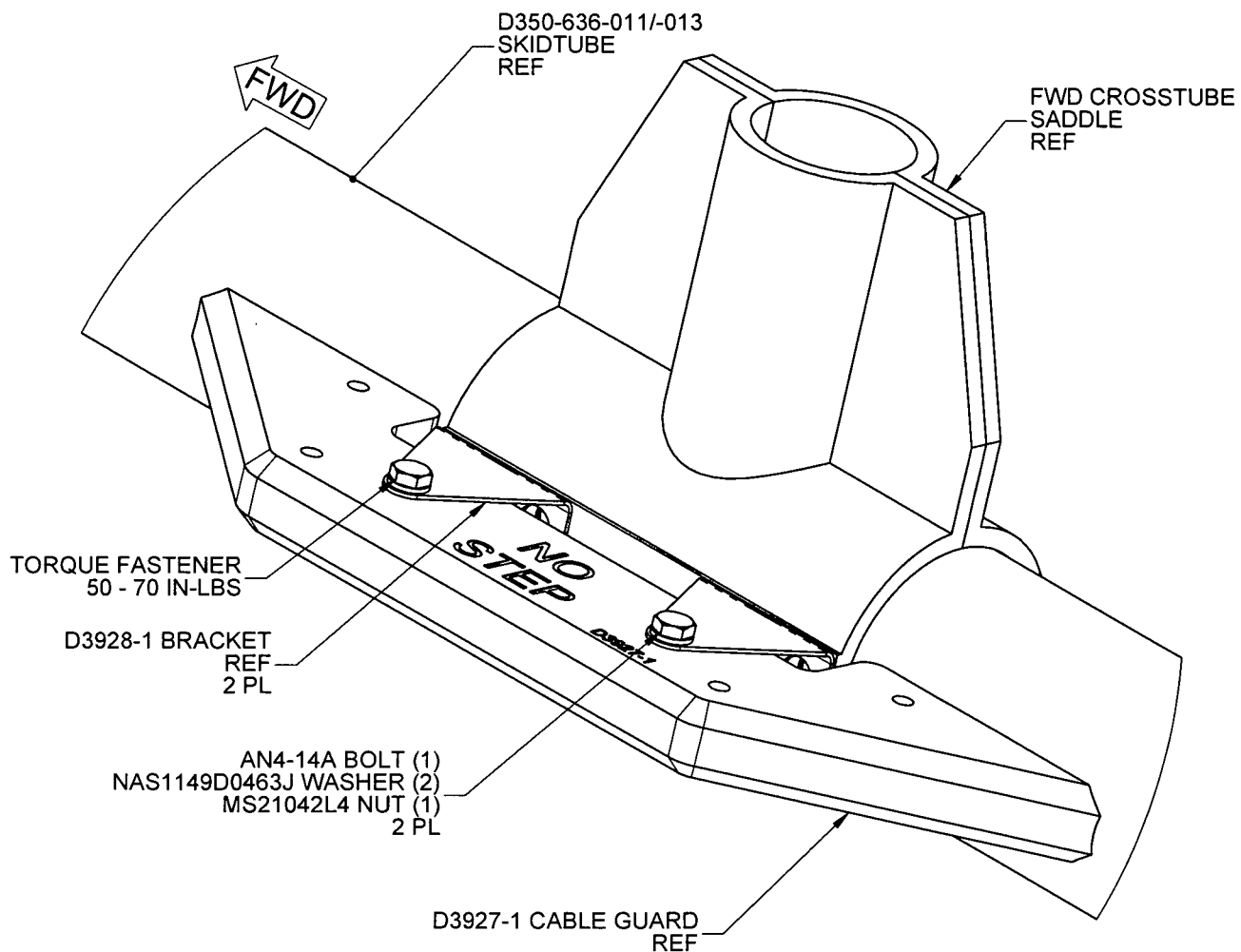
## PARTS LIST

QTY. -107	QTY. -107A	QTY. -107B	PART NUMBER	DESCRIPTION
X			D350-636-107	CABLE GUARD KIT
1	X		D350-636-107A	FORWARD CABLE GUARD KIT
1		X	D350-636-107B	AFT CABLE GUARD KIT
	1		D3927-1	FORWARD CABLE GUARD
		1	D3927-3	AFT CABLE GUARD
	2		D3928-1	BRACKET
	2		AN4-14A	BOLT
		1	BLBS-020	PIP PIN
	2		MS21042L4	NUT
	4		NAS1149D0463J	WASHER



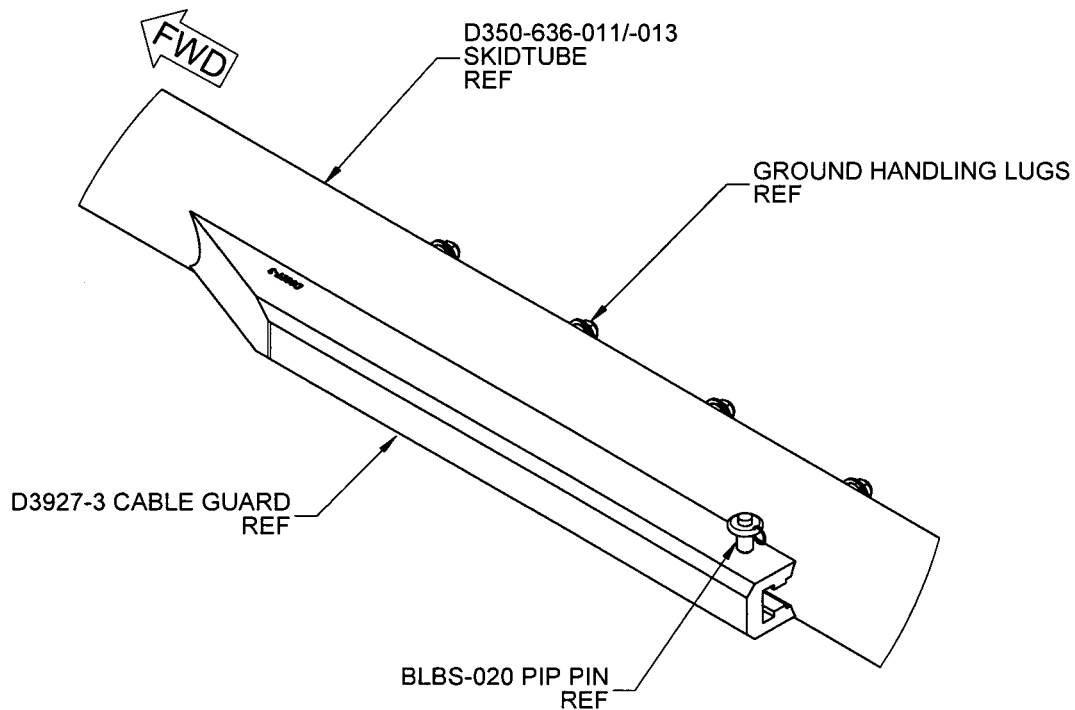
**FIGURE 1: D350-636-107 CABLE GUARD KIT**

DESIGN	<i>AS</i>	<b>DART AEROSPACE USA, INC.</b> PORT HADLOCK, WA	
DRAWN	<i>AS</i>		
CHECKED	<i>PH</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9457	SHEET 2 OF 4
APPROVED	<i>AS</i>	TITLE	SCALE
DE APPR.	<i>AS</i>	CABLE GUARD KITS	NTS
DATE	09.04.01	COPYRIGHT © 2009 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	



**FIGURE 2: D350-636-107A FWD CABLE GUARD KIT**  
ATTACH BOLTS NOT SHOWN FOR CLARITY

DESIGN	<i>AS</i>	<b>DART AEROSPACE USA, INC.</b> PORT HADLOCK, WA	
DRAWN	<i>AS</i>		
CHECKED	<i>PH</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9457	SHEET 3 OF 4
APPROVED	<i>NO</i>	TITLE	SCALE
DE APPR.	<i>PH</i>	CABLE GUARD KITS	NTS
DATE	09.04.01	COPYRIGHT © 2009 BY DART AEROSPACE USA, INC. <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.</small>	



**FIGURE 3: D350-636-107B AFT CABLE GUARD KIT**

NOTE:  
IT IS NECESSARY TO REMOVE THE D3927-3 CABLE GUARD IN ORDER TO MOVE  
THE AIRCRAFT ON THE GROUND USING THE GROUND HANDLING LUGS

DESIGN	<i>[Signature]</i>	<b>DART AEROSPACE USA, INC.</b> PORT HADLOCK, WA	
DRAWN	<i>[Signature]</i>		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9457	SHEET 4 OF 4
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	CABLE GUARD KITS	NTS
DATE	09.04.01	COPYRIGHT © 2009 BY DART AEROSPACE USA, INC. <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.</small>	